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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN FRANCISCO DIVISION

REARDEN LLC et al.,
Plaintiffs,
vs.
THE WALT DISNEY COMPANY et al.
Defendants

Case Nos. 3:17-cv-04006-JST
3:17-cv-04191-JST

**NOTICE OF MOTIONS AND MOTIONS
FOR SUMMARY JUDGMENT ON
CAUSAL NEXUS ISSUE**

24 REARDEN LLC et al.,
25 Plaintiffs,
26 vs.
27 TWENTIETH CENTURY FOX FILM
CORPORATION et al.,
28 Defendants.

Judge: Hon. Jon S. Tigar
Date: To be set
Time: To be set

Ctrm.: 9 (19th Floor)

NOTICE OF MOTIONS AND MOTIONS TO DISMISS

To Plaintiffs Rearden LLC and Rearden MOVA LLC (“Rearden”) and their counsel of record:

PLEASE TAKE NOTICE that on a date to be scheduled by further Court Order, or as soon thereafter as the matter may be heard, in Courtroom No. 9 of the above-captioned Court, located at 450 Golden Gate Avenue, San Francisco, CA 94102, all defendants in Case No.

7 3:17-cv-04006-JST (The Walt Disney Company, Walt Disney Motion Pictures Group, Inc., Buena
8 Vista Home Entertainment, Inc., Marvel Studios, LLC, and Mandeville Films, Inc.) (collectively,
9 “Disney”), and both defendants in Case No. 3:17-cv-04191-JST (Twentieth Century Fox Film
10 Corporation and Twentieth Century Fox Home Entertainment LLC) (jointly, “Fox”) (Disney and
11 Fox are referred to collectively as “Defendants” or “Studios”), will and hereby do move the Court
12 for an Order granting Defendants partial summary judgment on Rearden’s First and Second
13 Causes of Action against Disney, and Rearden’s First Cause of Action against Fox. Specifically,
14 Defendants move for an Order holding that Rearden may not obtain as damages under 17 U.S.C.
15 § 504(b) any portion of the Studios’ profits from the at-issue motion pictures (the “Motion
16 Pictures” or “Movies”—so-called “indirect profits”—on the ground that Rearden as a matter of
17 law cannot establish a causal nexus between the alleged copyright infringement and those profits.

18 These Motions are based upon these Notices of Motions and Motions; the attached
19 Memorandum of Points and Authorities¹; the contemporaneously filed Declarations of Vincent
20 Cirelli, Joe Conmy, Danielle Costa, Todd Isroelit, Gregory LaSalle, Patrick Ledda, Hao Li, Mike
21 Mulvihill, Erik Nash, Jonathan Rothbart, Mimi Steele, and Teresa Reed Dippo; all other materials
22 supporting these Motions and the Reply brief filed or manually lodged in support thereof; all
23 pleadings on file in this matter; and any other materials or arguments the Court may receive at or
24 before the hearing on these Motions.

²⁸ ¹ Defined terms in these Notices of Motions and Motions (e.g., “Rearden” or “Studios”) are also used in the accompanying Memorandum of Points and Authorities.

1

2 DATED: February 28, 2019

MUNGER, TOLLES & OLSON LLP

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By: /s/ Ginger D. Anders
5 GINGER D. ANDERS

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Attorneys for Defendants

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INTRODUCTION

2 Rearden has the substantial burden of establishing with non-speculative evidence a causal
3 nexus between the alleged infringement (the copying of MOVA code into computer random
4 access memory (“RAM”)) and revenues the Studios earned from the Motion Pictures. Countless
5 components contribute to the production of a major motion picture like those at issue here, and
6 many factors influence the decisions of consumers to see it. It is difficult to imagine any plaintiff
7 establishing a causal nexus between a software tool used behind the scenes in the motion picture
8 production process and motion picture revenue sufficient to entitle the plaintiff to an award of
9 indirect profits. Rearden cannot do so here and its remedy, if any, is not a portion of a Motion
10 Picture’s profits but the recovery of lost revenue—most accurately measured by what Rearden
11 charged customers for MOVA services or vendors for a license—or statutory damages under 17
12 U.S.C. § 504(c).

22 Nonetheless, Rearden attempts to create the impression that MOVA made a significant
23 contribution to the completed Movies by including in its Amended Complaint images of final
24 computer-generated (“CG”) faces, as if MOVA software directly created final characters and
25 therefore must bear a causal relationship to Movie revenues. Rearden greatly overstates the
26 involvement of MOVA software in the process of creating a CG character. MOVA is not
27 responsible for the onscreen appearance of the CG character, which is developed through
28 hundreds—if not thousands—of hours of work by a team of graphic artists. MOVA software is

1 involved only with geometric aspects of the CG character’s facial movements. And even then,
 2 other software is required to port the facial movements to the CG model and graphic artists must
 3 invest hundreds of hours in revising those movements to better match the CG character. The
 4 MOVA software’s output—in which Rearden has no copyright interest—is simply data that tracks
 5 movement in three dimensions. The output has more in common with a calculus problem than an
 6 onscreen CG character.

7 Innumerable pieces of equipment and types of technologies and software tools were used
 8 to make the Motion Pictures, along with countless hours of human involvement in front of and
 9 behind the camera. MOVA was just one of many behind-the-scenes tools that played one small
 10 part in the enormously complicated process of making major motion pictures.

11 Rearden, however, claims it can meet its burden because articles and other publications
 12 about some of the Motion Pictures referred to “MOVA.” But the statements Rearden cites are
 13 general references to the facial motion capture process—not just MOVA—and they do not
 14 attribute consumer choices or a Motion Picture’s revenues to MOVA.

15 Finally, Rearden’s request for damages based on the “use” of the MOVA software
 16 confuses liability under patent law with copyright law.¹ It is not the “use” of the MOVA software
 17 that is alleged to infringe, just the incidental copying of a portion of the software code through a
 18 routine computer operation. Had Rearden maintained and proved its patent claims, rather than
 19 dismissing them,² Rearden might have been able to seek damages based on the use of the software.
 20 But Rearden’s remedies under patent law would not include claims to Motion Picture profits.
 21 Instead, damages would be limited to a reasonable royalty or perhaps amounts saved by DD3’s
 22 use of MOVA relative to the use of another software tool or using no facial motion capture
 23 technology at all—which is presumably the reason Rearden dismissed its patent claims.

24 The Ninth Circuit has said that eliminating meritless indirect profits claims “‘obviates a
 25 good deal of mischief.’” *Polar Bear Prods., Inc. v. Timex Corp.*, 384 F.3d 700, 711 (9th Cir.
 26

27 ¹ Patent law provides liability for the unauthorized making, *using*, or selling of a product or
 28 process covered by the claim(s) of a patent. 35 U.S.C. § 154(a)(1).

² Dkt. 93 (No. 17-cv-04006).

1 2004) (quoting 4 Nimmer on Copyright § 14.03[B], at 14–39)). Rearden’s indirect profits claim—
 2 seeking to recover profits from a motion picture based on a claim of secondary liability arising out
 3 of a third-party vendor’s use of behind-the-scenes software—is mischief in the extreme. The
 4 Court should dismiss Rearden’s damages claim.

5 **BACKGROUND**

6 **I. THE LEGAL FRAMEWORK FOR REARDEN’S INDIRECT PROFITS CLAIM**

7 Section 504(b) of the Copyright Act authorizes the recovery of actual damages or “profits
 8 of the infringer that are attributable to the infringement.” 17 U.S.C. § 504(b). The law recognizes
 9 two types of profit claims. Direct profits come from the sale of the infringing copy. *Mackie v.*
 10 *Reiser*, 296 F.3d 909, 914 (9th Cir. 2002). Here, direct profits would be (at most) the amounts that
 11 DD3 invoiced for using MOVA. DD3’s invoices (including out of pocket costs) were for sums
 12 that would not justify the expense of this litigation.³

13 Rearden therefore seeks “indirect profits,” i.e., “revenue that has a more attenuated nexus
 14 to the infringement.” *Mackie*, 296 F.3d at 914. The alleged infringing act is the creation of an
 15 unauthorized copy of MOVA software code that temporarily resided in computers that third-party
 16 vendor DD3 operated. Based on that act—which took place early in the production process,
 17 before armies of visual effects artists, engineers, and others crafted the character and performance
 18 that eventually appeared on screen—Rearden seeks a portion of the profits made by the finished
 19 motion pictures.

20 Mindful that the indirect profits remedy incentivizes plaintiffs to “shoot the moon,” courts
 21 have adopted gating requirements for such claims. It is “particularly important for the plaintiff in
 22 [an] indirect profit action to demonstrate the alleged causal link between the infringement and the
 23 profits sought.” *Polar Bear Prods.*, 384 F.3d at 711 n.7. Ninth Circuit law is clear on what that
 24 entails:

25
 26

27 ³ See Steele Decl. ¶ 5; Costa Decl. ¶¶ 4–5; LaSalle Decl. ¶ 8; Conmy Decl. ¶ 5; *see also* Costa
 28 Decl. ¶ 6 (listing amount for visual effects provided by entity Rearden allegedly controlled for
 motion picture produced in 2012); Isroelit Decl. ¶ 4 (same for motion picture produced in 2009).

1 To survive summary judgment on a demand for indirect profits pursuant to
 2 § 504(b), a copyright holder must proffer sufficient non-speculative evidence to
 3 support a causal relationship between the infringement and the profits generated
 4 indirectly from such an infringement.

5 *Mackie*, 296 F.3d at 915–16.

6 That burden is significant. The plaintiff must show, through concrete evidence, that the
 7 infringement increased the revenue earned by the infringer. *Id.* at 911 (requiring “a link between
 8 the infringement and the [defendant’s] supposedly enhanced revenues”); *Dash v. Mayweather*, 731
 9 F.3d 303, 332 & n.18 (4th Cir. 2013) (reasoning that plaintiff’s claim could not survive summary
 10 judgment because plaintiff had “no evidence that the playing of the [infringing] song … increased
 11 any of [defendant’s] revenue streams”).

12 A plaintiff’s indirect profits theory is amenable to testing on summary judgment. Indeed,
 13 because the causation inquiry is rigorous and claims to indirect profits are often attenuated, such
 14 claims often do not survive summary judgment. 4 Nimmer on Copyright § 14.03[B][2][b], at
 15 p. 14 (such claims “are more frequently unsuccessful”). The Ninth Circuit, district courts within
 16 the Circuit, and other courts have granted summary judgment as a matter of law on indirect profits
 17 claims on the ground that the plaintiff is unable to proffer non-speculative evidence that the
 18 infringement increased revenues.⁴

19 The Ninth Circuit’s decision in *Mackie* demonstrates why Rearden’s claim cannot survive
 20 summary judgment. In *Mackie*, the district court rejected plaintiff’s claim for indirect profits after
 21 the defendant made an infringing copy of plaintiff’s artwork and used it on one page of a 24-page
 22 promotional brochure mailed to 150,000 potential ticket buyers of the Seattle Symphony. The
 23 page with the infringing artwork directly followed a page containing information about an

24 ⁴ See, e.g., *Mackie*, 296 F.3d 909 (affirming grant of summary judgment where evidence of
 25 causation was speculative); *Dash*, 731 F.3d at 332 & n.18 (affirming grant of summary judgment
 26 where plaintiff had “no evidence that the playing of the [infringing] song … increased any of
 27 [defendant’s] revenue streams”); *Bouchat v. Baltimore Ravens Football Club, Inc.*, 346 F.3d 514,
 28 520 (4th Cir. 2003) (affirming grant of summary judgment where plaintiff offered only
 speculation that use of infringing logo caused increased merchandise sales); *Thale v. Apple, Inc.*,
 No. C-11-03778-YGR, 2013 WL 3245170, at *7-*9 (N.D. Cal. June 26, 2013) (granting summary
 judgment where plaintiff “proffered no evidence that the use of the [infringing] Photo caused any
 iPhone 3GS sales, nor that the “Concert” commercial did itself”); *New Show Studios, LLC v.
 Needle*, No. 2:14-cv-01250-CAS (MRWx), 2016 WL 5213903, at *9 (C.D. Cal. Sept. 20, 2016)

1 upcoming performance series called “Pops.” The plaintiff artist sought a share of the Seattle
 2 Symphony’s profits from the Pops series based on the inclusion of his artwork to advertise the
 3 Pops series.

4 The Ninth Circuit affirmed the grant of summary judgment on plaintiff’s indirect profits
 5 claim because there were “virtually endless” reasons that people might purchase tickets to the
 6 Pops series: “For example, was it because of the Symphony’s reputation, or the conductor, or a
 7 specific musician, or the dates of the concerts, or the new symphony hall, or the program, or the
 8 featured composers, or community boosterism, or simply a love of music, or ... ?” *Mackie*, 296
 9 F.3d at 916. The plaintiff’s expert asserted that some people likely bought tickets as the result of
 10 seeing the infringing artwork. The Ninth Circuit rejected this claim as a matter of law for the
 11 fundamental reason that there are numerous reasons why people would buy Symphony tickets:
 12 “In the absence of concrete evidence, [plaintiff’s] theory is no less speculative than our effort ... to
 13 enumerate even a relatively short list of the myriad factors that could influence an individual’s
 14 purchasing decisions.” *Id.*

15 The causal link between infringement and revenues in *Mackie* was closer than that Rearden
 16 attempts to establish here. While in *Mackie* consumers at least saw the artwork in issue in the
 17 Symphony’s promotional brochure, consumers who paid to see the Motion Pictures saw neither
 18 the copied MOVA code nor any file that the code might have generated. As in *Mackie*, the
 19 number of factors here influencing a moviegoer’s decision to purchase a ticket are so varied that
 20 any attenuated link to MOVA would be pure speculation. Rearden’s claim for indirect profits
 21 cannot survive summary judgment.

22 **II. FACTUAL BACKGROUND**

23 Rearden’s complaints vastly overstate MOVA’s role, reprinting images from its marketing
 24 materials to make it appear that going from the performance capture, to the tracked mesh, to a
 25 completed CG character proceeds 1-2-3.⁵ The reality is that the special effects process of creating

26 (granting summary judgment where plaintiff “ha[d] not offered any non-speculative evidence that
 27 the [infringing] videos” included in defendant’s advertising portfolio “generated profits”).

28 ⁵ First Amended Complaints ¶ 37 (Mar. 6, 2018), Dkt. 63 (No. 17-cv-04006); Dkt. 41 (No. 17-cv-04191).

1 a CG character is far more complex, and MOVA software's contribution much less significant,
 2 than Rearden suggests.⁶

3 **A. The First, And Only, Step Involving The Alleged Infringement: Temporary**
 4 **Copies Of MOVA Software Code Are Created In RAM**

5 The alleged copyright infringement is narrow. Specifically, Rearden alleges that when
 6 third-party special effects vendor DD3 launched the MOVA system at the start of a motion-
 7 capture or data-processing session, pieces of MOVA software code were temporarily copied from
 8 the computer's hard drive into the computer's RAM.⁷ Other than the temporary copying of the
 9 MOVA software code through a routine computer operation, there is no alleged exercise of the
 10 exclusive rights of copyright, 17 U.S.C. § 106, and there is nothing more to the alleged
 11 infringement.

12 **B. The Next Steps—Capturing The Facial Performance And Generating The**
 13 **Output Files—Do Not Involve Copying MOVA Software Code And Are Not**
 14 **The Alleged Basis of Liability**

15 The MOVA processes of recording an actor's facial movements and generating data points
 16 can take only a few hours. The process of taking the resulting information from the face capture
 17 and creating a CG character involves the use of *non*-MOVA software tools and substantial human
 18 artistry, and takes thousands of hours over a period of months.⁸

19 1. During face capture, the MOVA software code necessary for the relevant software
 20 operation resides in RAM. The code provides instructions to the physical machinery (cameras and
 21 lights) for the strobing of visible and ultraviolet ("UV") lights and recording and synchronizing
 22 the data. The actor, wearing phosphorescent makeup (visible only under UV light), sits or stands
 23 in the physical MOVA apparatus and provides the performance. A supervisor directs the actor's
 24 facial performance. Li Decl. ¶¶ 13–17.

25

 26 ⁶ The process involved in creating a CG character is described in greater detail in several of the
 27 accompanying declarations, including the declaration of Professor Hao Li.

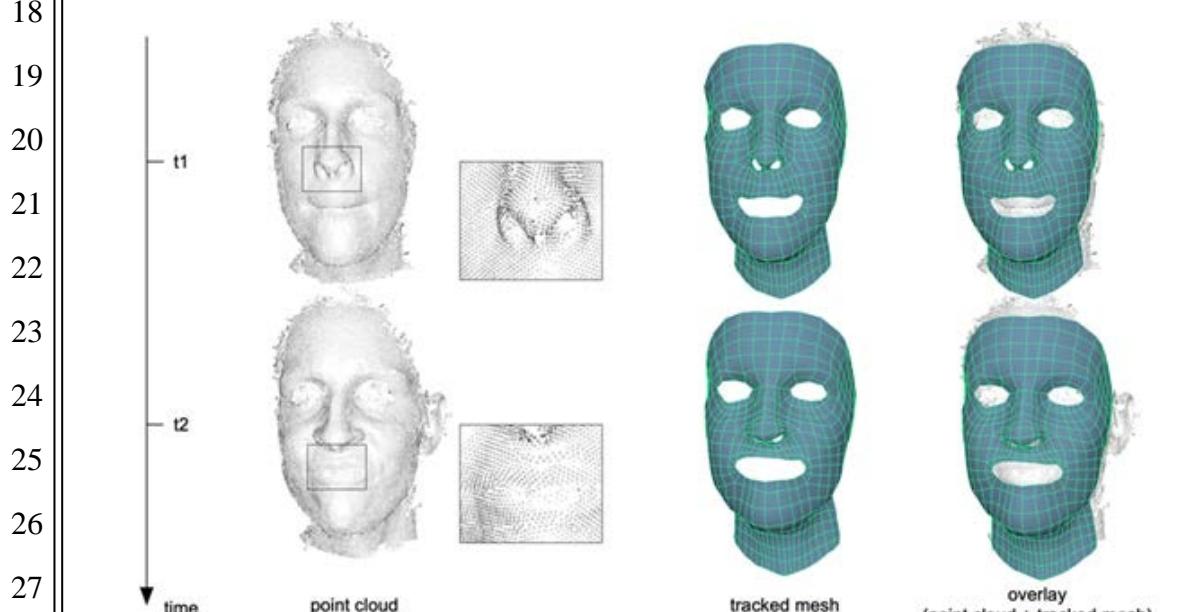
28 ⁷ First Amended Complaints (Mar. 6, 2018), Dkt. 63 ¶¶ 99, 107, 115, 129 (No. 17-cv-04006); Dkt.
 29 41 ¶¶ 96, 103, 112, 125 (No. 17-cv-04191).

30 ⁸ See, e.g., Li Decl. ¶ 26; Cirelli Decl. ¶ 10; Rothbart Decl. ¶¶ 9–17; LaSalle Decl. ¶ 8; Steele
 31 Decl. ¶ 4.

1 2. During data processing, the temporary copies of MOVA code again reside in RAM
 2 and provide instructions, most notably to assist with generating an output file called the “tracked
 3 mesh.” The tracked mesh is a collection of data following the position of various points on the
 4 face in three dimensions over time. *Id.* ¶¶ 18–19.

5 The tracked mesh is created by processing other facial motion data called the “point
 6 cloud.” First, each frame of the actor’s performance is translated into a “point cloud.” The point
 7 cloud is the actor’s face represented by thousands of coordinates along three dimensions (x, y, and
 8 z axes) in space. Visualized on a computer display, the point cloud appears as a collection of dots
 9 arranged in a 3D form covering the major regions of the face. *Id.* ¶ 19.

10 Second, the tracked mesh is produced by processing the point cloud data. MOVA software
 11 supplies an algorithm that tracks specific points on the face across time to produce the tracked
 12 mesh. The tracked mesh is a collection of data specifying particular 3D coordinates that permit
 13 consistent tracking of the motion of the actor’s face. If visualized on a computer display, the
 14 tracked mesh shows a wireframe outline of a facial mask. The data of the tracked mesh plots
 15 points only on the face (not the top or back of the head, including hair, or the ears), and excludes
 16 critical regions of the face, such as the teeth, tongue, eyes, skin around the eyes, and part of the
 17 lips. *Id.* ¶¶ 19–20. Below are visualizations of the point cloud and tracked mesh data. *Id.* ¶ 19.



1 Human involvement goes into the data processing required to create the tracked mesh.
 2 Although the MOVA software's algorithm is complex, it is not robust enough to accurately track
 3 complex facial movement, and it does not produce a perfectly accurate tracked mesh. Without
 4 human intervention to supplement and correct the tracking, the tracked mesh would be unusable.
 5 *Id.* ¶ 20c.

6 The output files from the use of the overall MOVA system (not just the software) are the
 7 point cloud, the tracked mesh, and the raw video footage of the actor's performance. The tracked
 8 mesh is most relevant to the process of animating a CG character, whereas the video footage and
 9 point cloud may be used as reference material. *Id.* ¶ 21. None of these output files is itself an
 10 allegedly infringing copy of the MOVA software code, and Rearden has no copyright claim in
 11 these output files.⁹

12 **C. The Next Step—Creating The Facial “Rig”—Does Not Involve Copies Of
 13 MOVA Software Code**

14 The tracked mesh is only a set of data points. To create a CG character, digital artists must
 15 separately create a 3D animation model of the character's face, to which the data can be applied to
 16 help create facial motion. This model, called a “rig,” is like a facial puppet that can be
 17 manipulated to perform a range of facial expressions. Li Decl. ¶ 21. The rig is typically hand-
 18 crafted by animators, with assistance from non-MOVA software, and is imbued with stylistic and
 19 artistic choices. *Id.* ¶ 22; *see, e.g.*, Rothbart Decl. ¶ 11. Below are three images of rigs of the
 20 character “Thanos” from *Guardians of the Galaxy* and *Avengers: Age of Ultron*: (a) at top, the
 21 Thanos rig performing a variety of hand-crafted facial expressions; (b) below and on the left, a
 22 close-up Thanos rig with a neutral facial expression; and (c) below and on the right, a close-up
 23 Thanos rig with a different facial expression. The appearance of the rig in the images below is the
 24 result of non-MOVA artistry and techniques. Cirelli Decl. ¶ 5.

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28⁹ Dismissal Order at 7–8, Dkt. 60 (No. 17-cv-04006).



The desired facial performance is then mapped onto the rig in a process that requires additional non-MOVA software, and does not involve copies of MOVA software code. Li Decl. ¶ 24. The tracked mesh supplies data points that reflect the facial *motion* from the actor's performance. But the tracked mesh typically cannot be directly applied to the facial rig because the (frequently inhuman) CG characters are often very differently proportioned from the human actors—Thanos and the Beast being two examples. A one-to-one port would result in unrealistic facial expressions. *See, e.g.*, Cirelli Decl. ¶ 7. Rather, specially designed non-MOVA software is required to translate the coordinates in the tracked mesh to computer parameters that can control

1 the facial movements of the rig. Li Decl. ¶ 24. DD3 has a proprietary software program, “Direct
2 Drive,” which is used for this purpose.¹⁰

3 Digital artists refine the mapped performance on the facial rig for accuracy and stylistic
4 reasons, such as the director’s preference for more exaggeration in the facial expression. Altering
5 the rig’s facial expression modifies or overwrites the expression reflected in the tracked mesh. Li
6 Decl. ¶ 25; *see also*, e.g., Steele Decl. ¶ 4. This further delinks the facial rig from the tracked
7 mesh data that MOVA generates. For any shots that use data from the tracked mesh, animators
8 must add the movement of the eye and lip regions, which are not included in the tracked mesh, to
9 the mapped performance. Li Decl. ¶ 25; Cirelli Decl. ¶ 6; LaSalle Decl. ¶ 5. Moreover, the
10 tracked mesh supplies data only for shots based on the actor’s facial performance in the MOVA
11 apparatus. Other shots do not involve MOVA data, such as shots based on manually-created
12 expressions. *See, e.g.*, Cirelli Decl. ¶ 6; Li Decl. ¶ 25.

D. Innumerable Additional Steps (None Of Which Involve Copies Of The MOVA Software Code) Are Required To Create The CG Character

The completed facial rig is not the completed CG character. There are still hundreds or even thousands of hours of human labor and artistry that are required to transform the rig into a CG character that appears onscreen. These subsequent stages may be broken down into three very broad categories, none of which involves MOVA software and each of which can take weeks or months to complete:

- *Modeling.* The face must be developed with color, texture, shading, hair, and other details. A photoreal CG face includes pore-level details, skin tone and color, changes in texture (such as wrinkles for particular expressions), and changes in skin tone based on emotion (for example, blood flow to the cheeks to depict anger). Each detail must be designed through manual artistry or other techniques that do not involve the MOVA system and then must be layered onto the facial rig. Li

²⁷ ²⁸ ¹⁰ LaSalle Decl. ¶ 5; Steele Decl. ¶ 3; *see also* Cirelli Decl. ¶¶ 6–7 (special effects studio for *Guardians of the Galaxy* and *Avengers: Age of Ultron* developed proprietary “Face2Face” software for this purpose); Ledda Decl. ¶¶ 4–5 (facial motion data was too different from target CG character to warrant creating software script to translate MOVA data to rig).

1 Decl. ¶ 26a; *see, e.g.*, Steele Decl. ¶ 4. The images below are examples from the
 2 processes of modeling the face of Thanos, specifically (a) layering hand-painted
 3 textures onto Thanos's face using non-MOVA modeling software; and
 4 (b) modeling facial hair onto Thanos's face. Cirelli Decl. ¶ 8a.



- *Animation.* Facial movement must be developed with manual animation for certain kinds of movement that cannot be created from the actor's facial performance. Examples include movement that results from contact between a face and another object (e.g., the punching of a face), or secondary facial motion caused by the character's movement (e.g., jiggling when jumping or shaking the head). To reproduce this movement, a technical director or animator will use computer parameters to simulate the particular movement, essentially employing a trial and error process until it "looks right." Once the computer parameters are satisfactory, the simulation may still require further refinement based on the artistic preference of the production team. Li Decl. ¶ 26b. The following image is a sample from the process of refining the movement of Thanos's facial skin by hand. Cirelli Decl. ¶ 8b.



- *Rendering.* The culmination of all the steps described above is a 3D version of the character's face, visible only on a computer using appropriate 3D-viewer software. This 3D version must be converted into a 2D image that can be incorporated into a final motion picture through a process called rendering. Rendering combines all of the facial components—the shape and motion of the face, the color, the texture, the shading, and other attributes. This involves months of effort by an entire team of specialized digital artists. The rendering process is extremely complex, requiring, among many other things, the incorporation of the realistic reflection of light onto the entire scene. MOVA software is not involved in this process. Li Decl. ¶ 26c; *see, e.g.*, Rothbart Decl. ¶¶ 14–16. The images below are (a) on the left, a sample from the process of perfecting the light reflected on Thanos's face; and (b) on the right, four sample images that show a few of the different visualizations of the Thanos face involved in the rendering process. Cirelli Decl. ¶ 8c.



1 • The image below shows the final onscreen version of Thanos's face, lacking even a
 2 shadow of resemblance to a tracked mesh. Cirelli Decl. ¶ 9.



12 These undertakings produce only the CG character's face. The character's body does not
 13 rely on the facial performance. Technicians conduct a separate full-body capture session, which
 14 may require performances by one or more actors or stunt doubles; computer simulations for
 15 extreme stunts; the building of body skeletons as models; and the retargeting of the actor's
 16 movement to the skeleton of the CG character. The development of the character's voice may also
 17 require hours of additional work, including a separate voice performance. Li Decl. ¶ 28; *see also*
 18 Rothbart Decl. ¶¶ 4–10.

19 The work of creating a single CG character is just one small part in completing the overall
 20 motion picture. That character must be integrated into the full-length footage, which includes the
 21 performances of many actors; a script for all the action and dialogue; the work of hundreds of
 22 other creative and technical personnel; elaborate sets, costumes, and music; and the countless
 23 other elements that go into creating a movie.¹¹ The amounts paid for the facial motion-capture
 24 process underscore the limited role of the MOVA software in the production process. DD3's
 25 invoices for its facial capture services (which encompassed more than just the use of the MOVA

27
 28

 11 Defendants are submitting DVD copies of the completed Motion Pictures. *See* Reed Dippo
 Decl. (filed with the Movies at issue in the Disney and Fox dockets, respectively).

1 software) constituted a tiny fraction of DD3’s overall special effects work, and an even smaller
 2 fraction of the overall special effects budgets for the Motion Pictures.¹²

3 **ARGUMENT**

4 Summary judgment is appropriate when a “movant shows that there is no genuine dispute
 5 as to any material fact and the movant is entitled to judgment as a matter of law.” Fed. R. Civ. P.
 6 56(a); *Anderson v. Liberty Lobby, Inc.*, 477 U.S. 242, 248–49 (1986). “A dispute is genuine only
 7 if there is sufficient evidence for a reasonable trier of fact to resolve the issue in the nonmovant’s
 8 favor, and a fact is material only if it might affect the outcome of the case.” *LivePerson, Inc. v.*
 9 *[24]7.ai, Inc.*, No. 17-cv-01268-JST, 2018 WL 5849025, at *3 (N.D. Cal. Nov. 7, 2018). Where,
 10 as here, the summary judgment motion pertains to “an issue as to which the nonmoving party will
 11 have the burden of proof,” “the movant can prevail merely by pointing out that there is an absence
 12 of evidence to support the nonmoving party’s case.” *Soremekun v. Thrifty Payless, Inc.*, 509 F.3d
 13 978, 984 (9th Cir. 2007). Because Rearden cannot meet its burden of establishing a causal nexus
 14 between the alleged infringement and the revenues made on the Motion Pictures, summary
 15 judgment is appropriate.

16 **I. REARDEN CANNOT SATISFY ITS BURDEN TO DEMONSTRATE A CAUSAL
 17 NEXUS BETWEEN THE INFRINGEMENT AND THE REVENUES FROM THE
 MOTION PICTURES**

18 Rearden cannot establish a concrete causal link between third-party vendor DD3’s
 19 temporary copy of MOVA software code and the revenues of the Studios’ Motion Pictures. This
 20 becomes obvious when one considers that the appearance of the CG character onscreen in the
 21 Motion Pictures is not infringing. It is only the temporary copying of code from MOVA—one of
 22 many software and other tools used in the movie-making process—that is alleged to be the act of
 23 infringement.

24

25

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27 ¹² See Costa Decl. ¶¶ 4–5; Conmy Decl. ¶ 5; LaSalle Decl. ¶ 8; Steele Decl. ¶ 5. The DD3
 28 invoices include the cost of transportation, lodging, and other costs incidental to the use of the
 software and face-capture services.

1 **A. Rearden Cannot Show Causation Because Consumers Decide To See A**
 2 **Particular Movie For Innumerable Reasons**

3 The Ninth Circuit holds plaintiffs to a substantial burden of presenting concrete, non-
 4 speculative evidence that the alleged infringement drove consumers' purchasing decisions. This
 5 requirement is fatal to Rearden's indirect profits claim because there are myriad reasons why
 6 consumers choose to see a movie.

7 *Mackie* (described above) and other cases are squarely on point. In *Mackie*, the court held
 8 that the plaintiff failed to establish a causal link between the infringing artwork and Symphony
 9 revenues because of the innumerable other reasons why consumers might buy Symphony tickets.
 10 Rejecting a claim similar to Rearden's here, the court found that the plaintiff's expert's opinion
 11 could not bridge the gap since the expert's analysis could not "determine how many of those
 12 individuals subscribed *because of* the infringed artwork specifically. *Mackie*, 296 F.3d at 916.
 13 Because "the artwork was but one page in a multi-page brochure that advertised a series of
 14 concerts," the causal "thread" was too "attenuated" to connect purchasing decisions to the
 15 infringement; any such effort would be "[r]ank speculation." *Id.* *Mackie* controls here and is fatal
 16 to Plaintiffs' claim.

17 *Polar Bear Productions* likewise rejected an indirect profits claim because only
 18 speculation supported the plaintiff's causal nexus theory. In that case, Timex launched a
 19 promotional campaign for watches that used infringing footage from the plaintiff's video. *Polar*
 20 *Bear Prods.*, 384 F.3d at 714. The plaintiff claimed that Timex's display of the infringing
 21 materials at trade shows and in promotional materials generated excitement about Timex watches
 22 and "enhanced brand prestige" that "translated into consumers purchasing Timex's products" at
 23 other locations. *Id.* at 713–14. The jury delivered a verdict for the plaintiff. The Ninth Circuit,
 24 however, even under a highly deferential standard of appellate review, held that the plaintiff could
 25 not obtain profits from Timex. The court said there was no "evidence establish[ing] that the
 26 infringement may have actually influenced the purchasing decisions of those that bought [the
 27 infringer's] watches at retail stores or other outlets." *Id.* at 714–15. As in this case, "[a]ctual retail
 28 purchasers were never exposed to the infringing images." *Id.* at 715.

1 Similarly, the Fourth Circuit in *Dash* rejected the plaintiff's attempt to establish a causal
 2 nexus between music played during Floyd Mayweather's entrance into the ring at two wrestling
 3 events and profits from videos of those events. *Dash*, 731 F.3d 303. Even though the infringing
 4 content was used in the video and audible to consumers, the court found the infringing use
 5 "form[ed] only a small, incidental portion" of the videos, and that it "defies credulity that a
 6 consumer would purchase" the videos because of the infringing song. *Id.* at 332 (internal
 7 quotation marks omitted).

8 The connection of the alleged infringement in *Mackie*, *Polar Bear Products*, and *Dash* and
 9 the defendants' profits is far closer than the causal nexus Rearden is trying to establish here. In
 10 each of those cases, the copyrighted work infringed was seen by, or could have been seen by,
 11 some customers. That feature of those cases gave the plaintiffs a basis to argue that the
 12 infringement conceivably could have influenced their purchasing decisions. The courts there
 13 nevertheless rejected the indirect profits claims because the plaintiffs could only speculate that
 14 exposure to the infringing material *caused* the purchasing decisions.

15 Here, MOVA is merely a software tool used as part of an involved creative process. *No*
 16 *consumer sees the code that was copied into RAM or even the tracked mesh*. As in *Mackie*,
 17 Rearden cannot offer non-speculative evidence of a causal nexus between the allegedly infringing
 18 temporary copies of MOVA software code and revenue from the Motion Pictures. As with
 19 symphonygoers in *Mackie*, there are countless reasons why a consumer might decide to see a
 20 particular Motion Picture: for its story, its stars, its director, its music, or based on a friend's
 21 recommendation, to name just a few.

22 The plaintiffs' indirect infringement claim in *Point 4 Data Corp. v. Tri-State Surgical*
 23 *Supply & Equip., Ltd.*, No. 11 CV 726 (CBA) (RLM), 2012 WL 3306575, at *3 (E.D.N.Y. Aug.
 24 13, 2012), is analogous to Rearden's claim. In that case, plaintiffs sought indirect profits as a
 25 remedy for the defendant's violation of the anti-circumvention restrictions of the Digital
 26 Millennium Copyright Act. The plaintiffs argued that they were entitled to profits from
 27 defendant's medical supply business based on defendant's internal implementation and use of
 28 plaintiffs' software for processing orders, invoices, financials, and inventories. The court rejected

1 plaintiffs' claim to defendant's profits, explaining that the "profits were not generated through,"
 2 for example, "selling the [at-issue] software," "but rather were the end result of [defendant's]
 3 business of selling medical supplies to customers who apparently had no knowledge of or interest
 4 in the brand of internal management software used at the company." *Id.* at *3. "[M]erely showing
 5 that the software was an important tool" did not satisfy the plaintiffs' burden. *Id.* at *4.

6 **B. Rearden Cannot Show Causation Because The Use Of The MOVA Software
 7 Was A Preliminary Step In An Elaborate Process Of Creating A Motion
 8 Picture**

9 Rearden cannot establish a causal nexus for a second reason: the temporary copies of the
 10 MOVA software code were an irrelevant byproduct of the use of the software. Even the actual use
 11 of the software made only a minute contribution to the completed Motion Pictures. That
 12 contribution was dwarfed by innumerable other creative efforts, rendering Rearden's indirect
 13 profits claim unduly speculative.

14 *Lowry's Reports, Inc. v. Legg Mason, Inc.*, 271 F. Supp. 2d 737 (D. Md. 2003), is
 15 instructive on this point. The defendant, a financial services company, distributed infringing
 16 copies of daily stock market reports to its analysts. The analysts used the copied reports in
 17 formulating financial advice for clients and in making daily investment decisions. *Id.* at 751. The
 18 court explained that the infringing copies were "never distributed" to customers and were
 19 synthesized with "a variety of other information" used to produce the firm's profitable investment
 20 analyses. *Id.* at 751–52 (alteration omitted). The court rejected the plaintiff's claim for revenues
 21 derived from the defendant's financial advice (which it earned by advising investors, buying and
 22 selling securities, and managing customer assets), because "[t]he complex, variable, independent
 23 thought processes of hundreds of individual brokers intervene between the copying and any
 24 subsequent gain." *Id.* at 752; *see also Orgel v. Clark Boardman Co.*, No. 92-2, 1960 WL 8025, at
 25 *1 (S.D.N.Y. Nov. 29, 1960) (rejecting causation where plaintiff argued that defendant's copying
 26 of law treatise enabled him to increase the profits from his law practice; "[t]he subject is too
 27 remote and speculative to be susceptible of computation by a court").

28 Here, Rearden has asserted that "the CG character as it appears in the film is the product of
 two processes: one to capture a live actor's facial performance in a lifelike manner, and the other

1 to create a CG model,” and that because both processes make “important contributions,” the
 2 involvement of pieces of MOVA software code in the former satisfies the causal nexus
 3 requirement.¹³ Rearden’s “contribution” theory overstates the significance of the temporary
 4 copies of MOVA software code and understates the innumerable processes (far more than two)
 5 that go into making the completed CG character (not to mention the full Motion Picture).

6 The creation of the temporary RAM copies was a byproduct of using the MOVA software.
 7 The copies did not represent the output of the program or the recorded facial performance. The
 8 software program itself only provided mathematical instructions for processing the captured
 9 performance into output files representing facial motion through data points. And even the output
 10 files consisted only of preliminary data, not anything that appeared in the completed Motion
 11 Pictures. The other elements and contributions to the CG character were numerous and complex.
 12 Ultimately, the role of the MOVA software was a small part of the work of the third-party vendor
 13 (let alone of the finished Motion Picture) and was superseded by the further development of the
 14 facial appearance and motion of the CG character.

15 **II. REARDEN’S CAUSAL NEXUS THEORIES ARE BASED ON SPECULATION
 16 AND A MISUNDERSTANDING OF NINTH CIRCUIT LAW**

17 In its prior filings, Rearden previewed how it will seek to establish a causal nexus. None
 18 of its arguments satisfy its burden.

19 **A. References To MOVA In Interviews And Articles Do Not Establish A Causal
 20 Nexus**

21 Rearden has argued that public statements in articles and YouTube videos of panel
 22 discussions about the Motion Pictures establish that the alleged infringement was a “driver[] of
 23 film attendance.”¹⁴ The snippets Rearden cites prove no such thing. The references to “MOVA”
 24 that do exist are general references to the entire facial motion capture process, which is comprised
 25 of a host of non-MOVA hardware and software tools and non-copyrightable processes. And the
 26 articles and videos Rearden cites discuss numerous other elements of the Motion Pictures—which
 27 confirms the futility of trying to show that MOVA drove consumer purchasing decisions.

28 ¹³ Joint Letter Brief at 6.

¹⁴ Joint Letter Brief at 6.

1 Rearden’s showpiece example—a YouTube video of a “Paris Press Conference” featuring
2 the director and stars of *Beauty and the Beast*—proves these points. From this video, Rearden
3 pulled quotations of actors Dan Stevens and Emma Watson and of director Bill Condon as lead
4 examples in its complaint against Disney.¹⁵ In the video, a reporter asks about motion capture
5 technology generally, and Dan Stevens mentions “MOVA” one time in his response. But the
6 three-minute discussion that ensues focuses on a range of topics having nothing to do with
7 MOVA, including the actors’ skill in performing and in dealing with the challenging aspects of
8 incorporating special effects; the body capture; the fact that Mr. Stevens did both facial
9 performances and on-set walkthroughs of his action; and the fact that the producers built a
10 separate “Beast” character to which Emma Watson read some of her lines. Mr. Stevens’s
11 reference to “MOVA” was a short-hand reference to the entire face capture process, and neither he
12 nor any other panelist said anything about MOVA software being responsible for the financial
13 success of the Movie. And the full video of this single press conference addressed numerous other
14 topics, including the actor Luke Evans’s stage experience; the challenge of “bring[ing] a new
15 breath of fresh air to this classic and yet remain[ing] respectful to the original”¹⁶; and the music
16 and dancing in the Motion Picture.

17 The Paris Press Conference and the other articles and videos on which Rearden relies do
18 not so much as imply, never mind establish, any non-speculative connection between the narrow
19 infringement that Rearden alleges and the revenues it is trying to reach.

B. Rearden Cannot Base Its Claim On DD3's "Use" Of MOVA

21 Rearden asserts that it can establish a causal nexus based on the fact that the Studios
22 “used” MOVA software “to capture an actor’s performance, and then to process the captured
23 performance.”¹⁷ The theory fails, not only because of the minimal role that the use of MOVA
24 software played in the creation of the Motion Pictures, but also because Rearden is conflating the

²⁶ ¹⁵ Dkt. 63 ¶ 2 (No. 17-cv-04006). The video is available at https://www.youtube.com/watch?v=R9mKV_gklgw&feature=youtu.be&t=12m14s.

²⁷ ¹⁶ Paris Press Conference, *Beauty and the Beast*, YouTube (Feb. 20, 2017) https://www.youtube.com/watch?v=R9mKV_gklgw&feature=youtu.be&t=21m12s.

²⁸ ¶¹⁷ Joint Letter Brief at 6.

1 “use” of the entire MOVA system with the specific infringing act alleged (DD3’s making
 2 temporary copies of pieces of the MOVA software code in RAM). Rearden has no copyright
 3 interest in the *use* of the MOVA system or even the use of the MOVA software code. The
 4 Copyright Act is clear: “In no case does copyright protection . . . extend to any idea, procedure,
 5 process, system, [or] method of operation.” 17 U.S.C. § 102(b). In the context of computer
 6 software, Section 102(b) “make[s] clear” that the particular form of “expression adopted by the
 7 programmer is the copyrightable element in a computer program,” but “the actual processes or
 8 methods embodied in the program are not within the scope of copyright law.” *Computer Assocs.*
 9 *Int’l, Inc. v. Altai, Inc.*, 982 F.2d 693, 703 (2d Cir. 1992) (quoting H.R. Rep. No. 1476, 94th
 10 Cong., 2d Sess. 54, reprinted in 1976 U.S.C.C.A.N. 5659, 5670); *cf. Apple Computer, Inc. v.*
 11 *Microsoft Corp.*, 35 F.3d 1435, 1443 (9th Cir. 1994) (“Apple cannot” use copyright law to “get
 12 patent-like protection for the *idea* of a graphical user interface”).

13 The process embodied in software is the proper subject of patent rather than copyright
 14 protection. 35 U.S.C. § 101 (a patent may be obtained for “any new and useful process”). But
 15 patent law would likely limit Rearden’s damages to the value of a “reasonable royalty”; and no
 16 case law would support Rearden’s patent-based claim to a portion of the ultimate profits of the
 17 Movies. 35 U.S.C. § 284; *see LaserDynamics, Inc. v. Quanta Computer, Inc.*, 694 F.3d 51, 67
 18 (Fed. Cir. 2012) (the “general rule” is that “royalties be based . . . on the ‘smallest salable patent-
 19 practicing unit’”) (quoting *Cornell Univ. v. Hewlett-Packard Co.*, 609 F. Supp. 2d 279, 283, 287–
 20 88 (N.D.N.Y. 2009)). Here, the available patent royalty would likely have been capped at the
 21 amounts that the Studios paid DD3 for its special effects services. That is presumably why
 22 Rearden chose to abandon its patent claims in this suit.¹⁸

23 Rearden is relying on the use of the process embodied in the MOVA software code to
 24 make sweeping claims to Movie profits. But only Rearden’s copyright claims remain live, and
 25 those claims involve only the temporary copies of MOVA software code in computer RAM. If
 26 Rearden can show copyright infringement, it may be entitled to the recovery of lost revenue
 27 (measurable based on what Rearden charged customers for MOVA services, or vendors for a
 28

1 license), or to statutory damages under 17 U.S.C. § 504(c). But Rearden is not entitled to a
 2 portion of the profits of the Motion Pictures based on DD3's use of MOVA. *See* Goldstein on
 3 Copyright § 14.1.1.1 at 14:8, 14:12 (identifying "lost sales," "a reasonable royalty," or "market
 4 value" as the appropriate measures of damages).

5 **C. Ninth Circuit Law Does Not Allow Rearden To Skip To The Apportionment
 6 Stage**

7 Rearden's prior filings also argued that all of the elements besides the temporary RAM
 8 copies of the software code are irrelevant to the causal nexus question, and instead are matters for
 9 Defendants to prove in apportioning profits that are not attributable to the infringement.¹⁸

10 Rearden has the burdens backward. Section 504(b) "creates a two-step framework for
 11 recovery of indirect profits: [first,] the copyright claimant must first show a causal nexus between
 12 the infringement and the gross revenue; and [second,] once the causal nexus is shown, the
 13 infringer bears the burden of apportioning the profits that were not the result of infringement."
 14 *Polar Bear Prods.*, 384 F.3d at 711. Rearden must establish a causal nexus "before the parties can
 15 wrangle about apportionment," *Mackie*, 296 F.3d at 915 (emphasis added), and must do so based
 16 on concrete, non-speculative evidence, *id.*; 4 Nimmer on Copyright § 14.03[B][2][a]. The
 17 contribution of countless elements other than the copies of MOVA software code to the completed
 18 Motion Pictures and their revenues is fatal to Rearden's ability to establish the required causal
 19 nexus. *See Mackie*, 296 F.3d at 916. Rearden's claims never get to the apportionment stage.

20 **III. IN ADDITION TO BEING BASED ON SPECULATION, REARDEN'S INDIRECT
 21 PROFIT CLAIMS FOR TRACK 1 MOTION PICTURES FAIL DUE TO THE DE
 22 MINIMIS (OR NONEXISTENT) APPEARANCE OF CG CHARACTERS WHOSE
 23 DEVELOPMENT INVOLVED ANY USE OF MOVA**

24 These cases concern six Motion Pictures, each alleged to contain one CG character for
 25 which there is alleged to have been some use of MOVA software. Summary judgment for lack of
 26 causal nexus is warranted for all six Movies for the reasons stated above.

27 ¹⁸ Dkt. 93 (No. 17-cv-04006).

28 ¹⁹ *See* Joint Am. Case Mgmt. Stmt. at 8 (July 18, 2018), Dkt. 97 (No. 17-cv-04006), Dkt. 68 (No. 17-cv-04191).

Rearden also cannot establish a causal nexus for the four Motion Pictures in the “Track 1” tier of discovery due to the de minimis or nonexistent use of MOVA.²⁰ They are (with one exception) in Track 1 because of the very small amount of time the characters in issue appear on screen. And, even then, MOVA tracked mesh data was not necessarily involved for all shots of a particular character.

In three Movies, the CG characters in issue appeared on screen for mere seconds:

- *Avengers: Age of Ultron* – The character “Thanos” appears only *in the closing credits* and for just over four seconds of the movie’s 141 minutes. Costa Decl. ¶ 2.
- *Night at the Museum: Secret of the Tomb* – A talking bust of Augustus Caesar appears on screen for approximately 11 seconds of the movie’s 98 minutes. Nash Decl. ¶ 4.
- *Guardians of the Galaxy* – The character Thanos appears on screen for 39 seconds of the movie’s two hours. Costa Decl. ¶ 2.

In the other Track 1 Movie—*Fantastic Four*—the facial motion of the CG “Thing” character was not based on MOVA tracked mesh data. Ledda Decl. ¶ 4.²¹

In these Movies, not only are the temporary copies of MOVA software code and tracked mesh many creative steps removed from the ultimate character that appears on screen, but that character itself appears on screen only fleetingly (if at all). When “the infringing content forms only a small, incidental portion of the products that generated the claimed revenue streams,” it “defies credulity that a consumer would” base purchasing decisions on that content. *Dash*, 731 F.3d at 332 (internal quotation marks omitted). The same can be said for *all* of the Motion

²⁰ “Track 1” is intended to provide for narrow discovery and early mediation. Order Adopting Discovery Plan at 2–3, Dkt. 113 (No. 17-cv-04006), Dkt. 79 (No. 17-cv-04191).

²¹ Rearden apparently filed a copyright claim based on Fantastic Four because the MOVA logo appears in the DVD/Blu-ray featurette. The Fox group responsible for the featurette had no involvement in the motion picture process. It appears the featurette included the MOVA logo because DD3 provided a third-party vendor that produced the featurette images of Jamie Bell that were not in fact used in connection with the CG character that appeared in the Movie. Mulvihill Decl. ¶¶ 2–7; Ledda Decl. ¶¶ 3–5.

1 Pictures. Rearden's claims based on the Track 1 Movies simply demonstrates the extent of
2 Rearden's overreaching to seek a remedy that has no application to the facts of this case.

3 **CONCLUSION**

4 Rearden cannot proffer concrete, non-speculative evidence of a causal nexus between the
5 infringing temporary copies of MOVA software and any of its output—none of which was visible
6 in the Motion Pictures—and the revenues earned by the Motion Pictures. Even the *use* of the
7 MOVA software (which is not protected by Rearden's copyright interest) was a preliminary
8 process that was superseded by numerous artistic and technical efforts and innumerable hours of
9 additional work even to create a single CG character. For these and the other reasons set forth
10 above, Defendants respectfully request that the Court grant partial summary judgment on
11 Rearden's indirect profits claim.

12 DATED: February 28, 2019

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